DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE:

STP00-0000-00(311)(313)(314)

OFFICE: Engineering Services

Turner Ben Hill Irwin

P.I. Nos.: 0000311 0000313 0000314

SR 107 from I-75 to SR 11/US 129

January 28, 2010 DATE:

FROM:

Ronald E. Wishon, Project Review Engineer REW

TO:

Bobby K. Hilliard, PE, State Program Delivery Engineer

Attn.: Peter Emmanuel

IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES SUBJECT:

The VE Study for the above projects was held August 10-13, 2009. Responses were received on January 7, 2010 and revised responses were received on January 27, 2010. Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. The Project Manager shall incorporate the VE alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT#	Description	Potential Savings/LCC	Implement	Comments					
	STP00-	0000-00(311) T	urner PI No. 0	0000311					
T-2	Use intermittent passing lanes in lieu of a four lane rural divided section from I-75 to CR 250	\$24,316,393	No	The use of intermittent passing lanes does not meet the need and purpose of the project. Retaining the proposed four-lane divided typical section would promote economic development and enhance the movement of goods.					
T-3	Use a 32 ft rural grassed median in lieu of a 44 ft rural grassed median	\$633,902	Yes	This will be done.					
T-4	Use an 18 ft raised median in lieu of a 24 ft raised median in urban sections	\$148,310	Yes	This will be done.					
T-6	Use 4 ft paved shoulders in lieu of 6 ½ ft paved shoulders	\$741,609	Yes	This will be done.					
Т-8	Use 24 in curb and gutter in lieu of 30 in curb and gutter	\$21,450	Yes	This will be done.					

Т-9	Use 11 ft inside lanes in lieu of 12 ft lanes	Proposed = \$460,020 Actual = \$253,000	Yes, partially	SR 107 from I-75 to CR 205 has 3 long curves that will require 12 foot lanes due to the high truck percentages. Twelve foot lanes will be used through the last curve. The final four miles of the project, up to CR 250, will use 11 foot inside lanes as proposed by the VE Team.
T-11	Extend the existing three lane section at I-75 to just east of Thompson Road	Design Suggestion	No	The VE Team believed that this design would mitigate an adverse effect on the historic house on the south side of SR 107; however, the existing edge of pavement cannot be held on the north side since a 20 ft clear zone is required for a 55 MPH speed. Using a 3 lanes section in this area would not eliminate the impacts to the historic property.
G-1	Shorten the left turn lanes to the minimum allowable deceleration length	\$219,912	Yes	This will be done.
G-2	Use Type A median openings instead of Type B	\$1,000,263	No	Based on traffic volumes and typical crash types along this corridor, the Office of Traffic Operations recommends the use of Type B openings along this corridor. Type B median openings perform better for both safety and operational reasons, especially at high speeds. This is mainly due to the offset nature of the left turn lane, creating better operational sight distance.
G-3	Eliminate the Firetower Road connector at Sta. 226+63 by reusing the existing intersection at Jeannette Road	\$57,564	Yes	This will be done.
G-5	Block Geoghagen Road (CR 41) just to the north of proposed SR 107	\$25,298	Yes	This will be done.
G-8	Minimize improvements to Live Oak Road and relocate median opening to align with Live Oak Road in its new location	\$90,117	Yes	This will be done.

STP00-0000-00(311)(313)(314) Turner Ben Hill Irwin P.I. Nos. 0000311 0000313 0000314 Implementation of Value Engineering Study Alternatives Page 3

G-14	Eliminate median openings at Sta. 304+70 and Sta. 334+00 and replace with a single median opening at Sta. 319+35	\$216,322	Yes	The median openings will be closed as proposed by the VE Team. The new median opening will be located between Sta. 315+00 and 316+00 which provides increased sight distance than Sta. 319+35.					
	STP00-0000	-00(313) Irwin	Ben Hill PI	No. 0000313					
T-1	Use a three lane rural section in lieu of a four lane urban divided section	\$4,059,230	No	The need and purpose for this project is focused on economic development and intermittent passing lanes would not satisfy this need. Based on the projected LOS, a four lane section is recommended for this corridor. The Chief Engineer has given approval for this project as a 4 lane GRIP style corridor.					
T-2	Use intermittent passing lanes in lieu of a four lane rural divided section	\$12,741,906	No	The need and purpose for this project is focused on economic development and intermittent passing lanes would not satisfy this need. The Chief Engineer has given approval for this project as a 4 lane GRIP style corridor.					
T-3	Use a 32 ft rural grassed median in lieu of a 44 ft rural grassed median	\$615,328	Yes	This will be done.					
T-4	Use an 18 ft raised median in lieu of a 24 ft raised median in urban sections	\$160,657	Yes	This will be done.					
T-5	Use 12 ft urban shoulders in lieu of 16 ft urban shoulders	\$93,571	Yes	This will be done.					
Т-6	Use 4 ft paved shoulders in lieu of 6 ½ ft paved shoulders	\$653,201	Yes	This will be done.					
T-7	Eliminate sidewalks from the urban section	\$505,257	No	T-10 will be implemented; therefore, T-7 cannot be done.					
Т-8	Use 24 in curb and gutter in lieu of 30 in curb and gutter	\$50,262	Yes	This will be done.					

T-9	Use 11 ft inside lanes in lieu of 12 ft lanes	\$659,661	No	Several factors preclude the use of 11 foot lanes on this section of the project. AASHTO recommends 12 foot lanes for higher speed designs, roadways with a significant number of curves, and relatively high truck traffic. Portions of the project will utilize a 65 MPH speed design. Truck traffic is projected to be 30%. The proposed geometry of the roadway would require tapering the inside lane from 11 feet to the required 12 feet throughout the curves. This design would be difficult to construct.
T-10	Eliminate the sidewalk from the south side of the urban section	\$265,028	Yes	This will be done.
D-1	Use HDPE pipe in lieu of RCP for longitudinal drainage	\$161,116	No	The contractor is incentivized to use the least expensive of the materials specified in the Pipe Culvert Materials Alternatives Chart.
G-1	Shorten the left turn lanes to the minimum allowable deceleration length	\$459,878	Yes	This will be done.
G-2	Use Type A median openings instead of Type B	\$759,220	No	Based on traffic volumes and typical crash types along this corridor, the Office of Traffic Operations recommends the use of Type B openings along this corridor. Type B median openings perform better for both safety and operational reasons, especially at high speeds. This is mainly due to the offset nature of the left turn lane, creating better operational sight distance.
G-17	Reduce the speed limit to 55 mph at Van Buren/Webster Road and shorten the curve radius at Sta. 364+09	Proposed = \$191,880 Actual = \$124,166	Yes, with modifications	Reduction of the speed design is not required in order to shorten the curve radii. A historic resource is located on the north side of SR 107 in the vicinity of this proposed recommendation. The curve radii can be reduced to a minimum of 2600 ft and still avoid impacts to the property.

	51P00-0000	0-00(314) Turner		
T-2	Use intermittent passing lanes in lieu of a four lane rural divided section	\$32,578,455	No	The use of intermittent passing lanes does not meet the need and purpose of the project. Retaining the proposed four-lane divided typical section would promote economic development and enhance the movement of goods.
T-3	Use a 32 ft rural grassed median in lieu of a 44 ft rural grassed median	\$628,569	Yes	This will be done.
Т-6	Use 4 ft paved shoulders in lieu of 6 ½ ft paved shoulders	\$681,424	Yes	This will be done.
T-9	Use 11 ft inside lanes in lieu of 12 ft lanes	\$737,105	Yes	This will be done.
B-2	Use a Type A median crossover and shorten the WB turn lane to Rebecca Waterloo Highway so it does not affect the bridge over Deep Creek	\$417,850	Yes	This will be done to the exter possible. The final length an location of the bridge has no been determined, but a Type median crossover and shorter tur lane will be implemented a described. Once the final hydraulic study is completed, an possible modifications to the bridge will be determined.
G-1	Shorten the left turn lanes to the minimum allowable deceleration length	\$500,069	Yes	This will be done.
G-2	Use Type A median openings instead of Type B	\$1,061,460	No	Based on traffic volumes are typical crash types along the corridor, the Office of Traff Operations recommends the use of Type B openings along the corridor. Type B medicopenings perform better for both safety and operational reason especially at high speeds. This mainly due to the offset nature the left turn lane, creating bett operational sight distance.
G-10	Maintain the existing alignment at Hawkins Road	\$72,164	Yes	This will be done.

STP00-0000-00(311)(313)(314) Turner Ben Hill Irwin P.I. Nos. 0000311 0000313 0000314 Implementation of Value Engineering Study Alternatives

G-11	Maintain Eleanor Circle at the existing alignment at Sta. 313+38	\$63,174	Yes	This will be done.
G-12	Maintain the existing alignment at the Big Creek/Truman Road intersection	\$309,762	Yes	This will be done.
G-13	Maintain the existing alignment at Eisenhower Road	\$70,778	Yes	This will be done.
G-14	Eliminate the median openings at Sta. 214+80, 258+40 and 288+00 and replace them with openings at Sta. 233+53 and 273+91	\$208,687	Yes, with modifications	The number of median openings in this area will be reduced from three to two; however, the median openings will be located at Sta. 239+00 and Sta. 284+00 instead of the locations proposed by the VE Team. Sta. 273+91 is located on the bridge over the Alapaha River and shifting the opening to Sta. 284+00 locates it as far west as possible without placing the turn lanes on the bridge. Sta. 239+00 is equidistant between Hawkins Road/CR 62 and Sta. 284+00.

Page 6

The Office of Engineering Services concurs with the Project Manager's responses.

Approved:	Oll MRs	Date:	2/1/10
PP	Gerald M. Ross, PE, Chief Engineer		

REW/LLM Attachments

Ben Buchan

Paul Liles/Bill Duvall/Bill Ingalsbe/Shaun Williams

Bobby Hilliard/Mike Haithcock/Peter Emmanuel/Kimberly Nesbitt

Amber Phillips

Joe Cowan

Nabil Raad

Lisa Myers

Matt Sanders

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: STP00-0000-00(311) Turner County

OFFICE: Program Delivery

SR 107 widening from I-75 to CR 250

DATE: January 07, 2010

PI No. 0000311

FROM: Bobby K. Hilliard, P.E., State Program Delivery Engineer B.4.

TO: Ronald E. Wishon, State Project Review Engineer

ATTN: Lisa Myers

Subject: Value Engineering Study Responses

Reference is made to the recommendations that were contained in the Value Engineering Report dated August 21, 2009 for the above referenced project. Our responses and recommendations are as follows.

Value Engineering Recommendation No. T-2

Use intermittent passing lanes in lieu of a four-lane rural divided section from I-75 to CR 250. (Cost Savings of \$31,705,352)

Response: No, the recommendation will not be implemented. The intermittent passing lanes proposed by the VE Team do not meet the project's Need and Purpose. Specifically, the recommendation would not meet the project's goal of improving the corridor for the purpose of enhancing goods movement and promoting area economic development. To assist in the accomplishment of this goal, the Need and Purpose for the project included providing fourlanes of capacity and increasing the posted speed to 65 mph in the non-urban areas. Retaining the proposed four-lane divided typical section would meet the project's need. Moreover, the Chief Engineer's email communication with the Project Manager concurred with the pursued of the four-lane design.

Value Engineering Recommendation No. T-3

Use a 32-ft wide rural grassed median in lieu of a 44-ft wide rural grassed median from STA 142+00 to STA 508+00. (Cost Savings of \$633,902)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. T-4

Use an 18-ft-wide raised median in lieu of a 24-ft-wide raised median in urban sections from STA 103+00 to STA 141+00. (Cost Savings of \$39,915)

Value Engineering Recommendation No. T-6

Use 4-ft-wide paved rural shoulders in lieu of 6 ft 6-in-wide paved rural shoulders from I-75 to CR 250. (Cost Savings of \$741,609)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. T-8

Use 24-in-wide curb and gutter in lieu of 30-in-wide curb and gutter throughout the project. (Cost Savings of \$21,450)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. T-9

Use 11-ft-wide inside lanes in lieu of 12-ft-wide inside lanes from I-75 to CR 250. (Cost Savings of \$460,020)

Response: Yes, the recommendation will be partially implemented. The AASHTO Policy on Geometric Design of Highways and Streets, 2004, pages 208 to 215 has set forth criteria on widening roadways at curves due to truck use. SR 107 from I-75 to CR 250 has 3 long curves that would have to be widened from 11 feet to approximately 12 feet. This is mainly due to the high truck percentages. 12-foot inside lanes will be used until the end of the last curve. The final four miles, up to CR 250, will be 11-foot inside lanes. (Alternate Cost Savings of \$253,000)

Value Engineering Design Suggestion No. T-11

Extend the existing three-lane section at I-75 to just east of Thompson Road. (No cost savings associated)

Response: No, the recommendation will not be implemented. The VE team believed that this design would mitigate an adverse effect on the historic house on the south side of SR 107. However, the existing edge of pavement cannot be held on the north side since a 20-ft clear zone is required for a 55 MPH speed. With a 14' center lane, the right-of-way would come within 36 feet of the house, and some trees would have to be removed. The historic house would still have to be moved with a three-lane section.

Value Engineering Recommendation No. G-1

Shorten the left turn lanes to the minimum allowable deceleration length throughout the project limits. (Cost Savings of \$94,248)

Value Engineering Recommendation No. G-2

Use Type A median openings in lieu of Type B throughout the project. (Cost Savings of \$1,000,263)

Response: No, the recommendation will not be implemented. The following reasons are stated by Scott Zehngraff of the Office of Traffic Operations "Based on the traffic volumes & typical crash types along this corridor, our office cannot recommend the removal of the type B median openings on this corridor. Type B median openings perform better for both safety and operational reasons – especially at high speeds. This is mainly due to the offset nature of the left turn lane, creating better operational sight distance. Additionally, we have programmed dozens of safety projects throughout the state to convert existing Type A median openings to Type B median openings. It would not be cost efficient/effective to install Type B medians in the future at a higher cost than as part of these projects."

Value Engineering Recommendation No. G-3

Eliminate the Firetower Road connector at STA 226+63 by reusing the existing intersection at Jeanette Road. (Cost Savings of \$57,564)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. G-5

Block Geoghagen Road/CR 41 just to the north of proposed SR 107. (Cost Savings of \$25,298)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. G-8

Minimize improvements to Live Oak Road and relocate the median opening to align with Live Oak Road in its new location. (Cost Savings of \$90,117)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. G-14

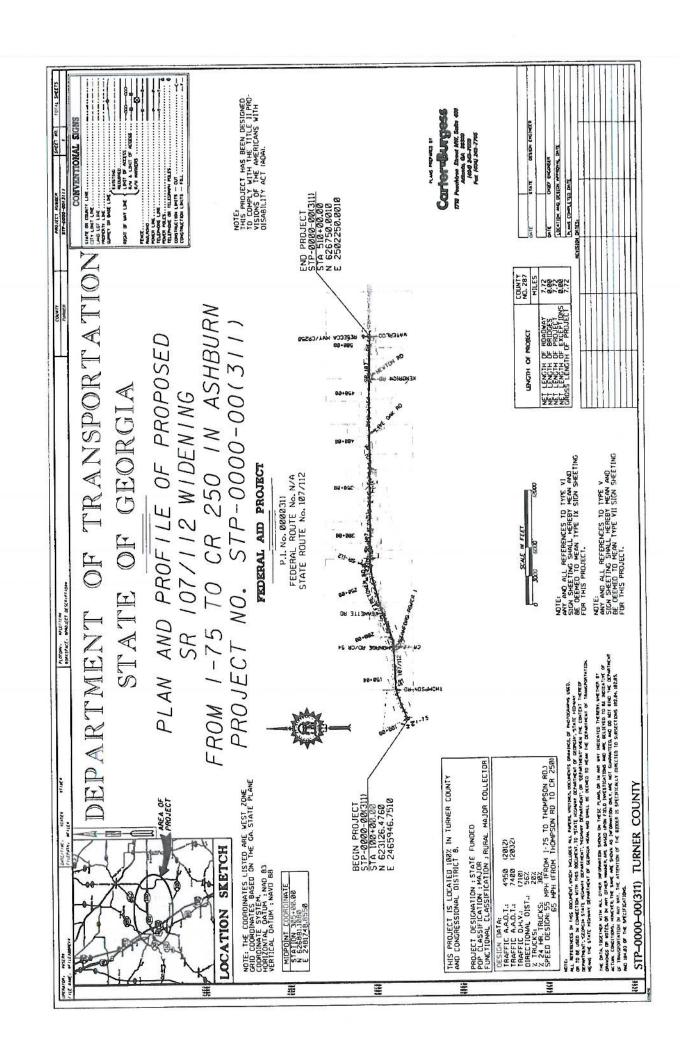
Eliminate median openings STA 304+70 and STA 334+00 and replace with a single median opening at STA 319+35 (Cost Savings of \$216,322)

Response: Yes, the recommendation will be partially implemented. The Subject Matter Experts has looked at the sight distance at this location and found that this location (STA 319+35) barely meets the needed 645 feet of sight distance. However, if the median was moved to between STA 315+00 and 316+00 there would be a significant increase in sight distance. The proposed median opening will be relocated between STA 315+00 and 316+00. (Cost Savings is the same)

BKH:MAH:pbe

Attachment: Project Cover Sheet

cc: Ben Buchan, Director of Engineering



PRECONSTRUCTION STATUS REPORT FOR PI:0000311,0000313,0000314

MGMT LET DATE: MGMT ROW DATE: BASELINE LET DATE: SCHED LET DATE: WHO LETS?: CDOT Let LET WITH:	Status Date Auth AUTHORIZED 11/18/2002 PRECST PRECST	Aity Cost Fund Q25 Q25 Q26 Q200 Q20 Q20 Q20 Q20 Q20 Q20 Q20 Q20 Q2	on GRIP Issues ses & Implementation VHT).	DEEDS CT:
MGMT LET DATE: MGMT ROW DATE: BASELINE LET DATE SCHED LET DATE: WHO LETS?: LET WITH:	Cost Fund 1,582,709,30 Q25 A 11,844,218,32 1,250 P 56,325,547,30 1,250 P	te: 8/11/2009 PE te: 8/11/2009 UTL CST	District Comments 10. 909. iting on Gerald Ross feedback iting on Gerald Ross feedback on Respon. O3. Reduces delay by 18 hrs (DOT
PRIORITY CODE: DOT DIST: 4 CONG. DIST: 8 BIKE: N MEASURE: E NEEDS SCORE: 4 BRIDGE SUFF:	Approved Proposed 2003 2003 LR LR LR LR LR LR	Date: nt 6,021,000,00 Date: mt 749,000,00 Date: E 34,579,000,00 Date:	PE PROJ NO: PESTP000000311 1) Jacobs Civil Inc., contract expires 12/31/2010. 2) Economic Development project 3) Concept Report approved 8/11/2009. 4) VE Study Recommendation Held on8/13/2009. 5) Preparing VE Study Report Responses, Waiting on Gerald Ross feedback on GRIP Issues 6) Submission of ENV. Doc depend on VE Study Recommendation Responses & Implementation result. 7) PrPP Info: Tier# 4, Score# 13, B/C Ratio 0.03, Reduces delay by 18 hrs (VHT).	Acquired by: Acquisition MGR: RAW Cert Date:
	% Activity 100 PE 100 PE 100 PE 100 UTL 100 UTL 100 UTL 100 UTL 110 CST 100 0 100 100 100 100 100 100 100 100	14 0 0 PE Cost Est Am: 0 ROW Cost Est Am: 0 Utility Cost Est Amt 0 CST Cost Est Amt 0 0 CST Cost Est Amt 0 0 0 0 0 0 0	PE PROJ NO: 1) Jacobs Civi 2) Economic 1 3) Concept R 4) VE Study F 5) Preparing N 6) Submission result. 7) PrPP Info.:	
5 IN ASHBURN Not Urban Widening ADD 4R(MED 44) Reconstruction/Rehabilitation N	ACTUAL ACTUAL ACTUAL START FINISH 2022006 8/11/2009 2/2/2006 12/18/2009 1/18/2009 7/14/2009 7/14/2009 12/19/2007 8/11/2009 12/19/2007 8/18/2007 1/30/2007 8/18/2007 8/18/2007 6/18/2004 6/24/2004 6/24/2004 6/24/2004	1	ıgn 11/12/02. Not	Cond. Filed: Relocations: Acquired:
Not Urban	Concept Development Concept Meeting PM Submit Concept Report Receive Preconstruction Concept Approval Management Concept Approval Complete Value Engineering Study Public Information Open House Held Environmental Approval Mapping	Preliminary Plans Preliminary Plans Underground Storage Tanks 404 Permit Obtainment PFPR Inspection R/W Plans Preparation R/W Plans Final Approval L & D Approval R/W Authorization Stake R/W Soil Survey Final Design FFPR Inspection Submit FFPR Responses(OES)	OCT 1999 LR: ASSIGNED ROAD DESIGN 11/12/99. Reassigned to Consult Design 11/12/02. Not GRIP-Env & Concept only.10/1/03 NO BRIDGE REQUIRED NO BRIDGE REQUIRED PBEINced MCMT Decision on GRIP Issues 0-16-09 EA NotApvd NoSchePhillips 2-2-08 NOTIFICATION LETTER SENT 12-29-04 #1 7-05 #2 11-05 SND CNSLTNT PLNS FR REVW0300603 1st & 2nd to DZN 2(-3) 01-07-10 2105(H8S(94)V88);REFLY6272/04@250;DOT=M/S:D=(MII/DAY)	W System: end:
0000311 Turner 7 90 STP00-0000-00(311) Emmanuel, Peter B. MAH Program Delivery Consultant Design (DOT contract) GDOT Jacobs Civil, Inc.	START FINISII START FINISII 2/9/2010 4/28/2011	11/4/2010 3/4/2010 3/202010 5/20/2010 5/20/2011 5/23/2011 5/23/2011 5/28/2011 11/25/2011 11/25/2011 11/25/2011 11/25/2011 11/25/2011 11/25/2011 11/25/2010	OCT 1999 LR: ASSIGNED ROAD DESIGIGRIP-Env & Concept only 10/103 NO BRIDGE REQUIRED PBEINced MGMT Decision on GRIP Issue: EA NotApvd NoSchePhillips 12-2-08 NOTIFICATION LETTER SENT 12-29-04 #1 7-05 #2 11-05 SND CNSLTNT PLNS FR REVWØ30603 1st & 2nd to DZN 2(-3) 01-07-10 2105(H85(94)V88);REFLY6272/04@250;	56 Total Parcel in RC Options - Pending: Condemnations - P
PROJ ID: 0000311 COUNTY: Tumer LENGTH (MI): 7:90 PROJ NO: STP00-0 PROJ MGR: Emmanu AOHD Initials: MAH OFFICE: Program CONSULTANT: Consulta SPONSOR: GDOT DESIGN FIRM: Jacobs (BASE BASE L START FINISH ST 1271	1/25 1/25 5/27 5/23 9/12 1/12 3/7/ 8/20 9/4/	PDD: OCT 199 Bridge: NO BRIP-En GRIP-En GRIP-E	Prel. Parcel CT: Under Review: Released:

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE:

STP00-0000-00(313), Ben Hill & Irwin Counties

OFFICE:

Program Delivery

PI No.: 0000313

SR 107 Widening From CR 264 to SR 11/US 129

DATE:

January 07, 2010

FROM:

TO:

Bobby K. Hilliard, P.E., State Program Delivery Engineer B. H.

Ronald E. Wishon, State Project Review Engineer

ATTN: Lisa Myers

SUBJECT:

Value Engineering Study Responses

Reference is made to the recommendations that were contained in the Value Engineering Study Report dated August 21, 2009 for the above referenced project. Our responses and recommendations are as follows:

- Value Engineering Alternative No. T-1 Use a 3-lane rural section in lieu of a 4-lane urban divided section from Sta 490+69 to Sta 620+45. (Cost Savings of \$4,059,230) Response: No, the recommendation will not be implemented.
 - As detailed in the response for Alternative T-2, the purpose of this project is for economic development and to accommodate the amount of traffic this development may bring, therefore a four lane section is recommended. In addition, the Chief Engineer has given approval for this project as a 4 Lane GRIP style corridor.
 - An HCS analysis of the traffic flows within this Station range for the design year peak hour are shown below:

	2	032 Build P	M Peak H	our			
8	3-1	ane	4-lane divided				
Segment	LOS	Speed (mi/h)	LOS	Density (pc/mi/ln)			
Harris Rd to Haile Booker Rd	С	49.2	А	5.0			
Perry House Rd to Appomatox Rd	D	45.2	Α	8.3			
Walmart Dr to US 129	Е	40.0	В	11.4			

Based on the projected LOS for SR 107 east of Perry House Road (Sta 563+63), a four lane section is recommended. This reduces the area of a possible three lane section to only 1.4 miles in length and would create a situation where SR 107 narrows from four to three lanes for a short distance and then widens back to four lanes.

- Value Engineering Alternative No. T-2 Use intermittent passing lanes in lieu of a 4-lane rural divided section from Sta 131+00 to Sta 486+00 (Cost Savings of \$12,741,906)

 Response: No, the recommendation will not be implemented.
 - The Need and Purpose for this project is focused on Economic Development and intermittent passing lanes do not meet this need. A four lane divided section has been established through precedent on many other projects in Georgia as being the base typical section for economic development. In addition, the Chief Engineer has given approval for this project as a 4 Lane GRIP style corridor.
- Value Engineering Alternative No. T-3 Use 32-ft-wide rural grassed median in lieu of a 44-ft-wide rural grassed median from Sta 131+00 to Sta 486+00 (Cost Savings of \$615,328) Response: Yes, the recommendation will be implemented.
- Value Engineering Alternative TS-4 Design Use 18-ft-wide raised median in lieu of a 24-ft-wide raised median from Sta 490+00 to Sta 612+50 (Cost Savings of \$160,657)
 Response: Yes, the recommendation will be implemented.
- Value Engineering Alternative No. T-5 Reduce Use 12-ft-wide urban shoulders in lieu of a 16-ft-wide urban shoulders from Sta 490+00 to Sta 620+45. (Cost Savings of \$93,571)
 Response: Yes, the recommendation will be implemented.
- 6. Value Engineering Alternative No. T-6 use 4-ft-wide paved rural shoulders in lieu of 6 ft 6 in paved rural shoulders from Sta 130+80 to Sta 490+69. (Cost Savings of \$653,201)

 Response: Yes, the recommendation will be implemented.
- 7. Value Engineering Alternative No. T-7 Eliminate sidewalk from the urban section (Cost Savings of \$505,257)

- This alternative is paired with Alternative T-10 (eliminate sidewalk on the south side of SR 107), which will be implemented.
- Providing for pedestrian connectivity is worthwhile part of a roadway improvement project.
 The area north of SR 107 is primarily residential and providing sidewalk along SR 107 will help link these areas for pedestrians.
- 8. Value Engineering Alternative No. T-8 use 24-in-wide curb and gutter in lieu of 30-in-wide curb and gutter throughout the project. (Cost Savings of \$50,262)

 Response: Yes, the recommendation will be implemented.
- Value Engineering Alternative No. T-9 Use 11-ft-wide inside lanes in lieu of 12-ft-wide inside lanes form CR 264 to SR 11/US 129 (Cost Savings of \$659,661)
 Response: No, the recommendation will not be implemented.
 - Exhibit 3-47 of the AASHTO Green Book recommends lane width greater than 23' of pavement for 60 mph and higher speed designs for curves with radii of less than 6000 feet, under 5500 feet for speed designs of 55 mph, and under 4500 feet for radii of speed designs of 45 mph. A large number of curves in the existing design fall within these categories, so to implement this change would require tapering the inside lane from 11 feet to the required width through curves. This design would be difficult to construct. The additional cost of the required wider lanes, using the unit cost figures and methodology of the VE Team, comes out to \$82,110.85, reducing the projected cost savings from \$659,661.00 to \$577,550.15 as shown in Table 1.

CURVE	DESIGN	RADIUS	PC	PT	Addit'l	Curve	Add't	Add't
NUMBER	SPEED				Width	Length	Pavement	Cost
.,	(mph)	(ft)			Req'd		Area (SF)	(\$5.10/SF)
Mainline								
kc15193	65	5729.58	103+77.36	106+12.11	0.1	234.75	46.95	\$239.45
kc15194	65	5729.58	122+77.36	125+12.07	0.1	234.71	46.94	\$239.40
kc15197	65	5729.58	223+31.17	225+83.12	0.1	251.95	50.39	\$256.99
kc15198	65	5729.58	245+69.44	248+13.45	0.1	244.01	48.80	\$248.89
kc15200	65	5729.58	280+50.81	282+12.41	0.1	161.60	32.32	\$164.83
kc15201	65	5729.58	289+11.38	290+65.04	0.1	153.66	30.73	\$156.73
kc15202	65	2600.00	332+15.00	382+77.26	0.8	5062.26	8099.62	\$41,308.04
kc15203	65	1909.85	389+83.63	405+73.94	1	1590.31	3180.62	\$16,221.16
kc15204	55	5729.58	436+82.06	466+55.49	0.1	2973.43	594.69	\$3,032.90
kc15205	55	5729.58	475+29.46	485+92.84	0.1	1063.38	212.68	\$1,084.65
kc15206	45	11459.16	509+96.15	511+71.31	0		1	
kc15207	45	11459.16	541+33.93	542+89.84	0			
kc15208	45	11459.16	568+35.92	572+11.76	0			
kc15209	45	11459.16	585+68.81	588+28.22	0			
kc193	45	2490.00	602+69.87	616+93.93	0.5	1424.06	1424.06	\$7,875.05
kc15212	45	2546.48	624+97.22	631+87.66	0.5	690.44	690.44	\$3,818.13
					S	ub-Total Ad	ditional Cost	\$74,646.23
						М	arkup (10%)	\$7,464.62
							ditional Cost	\$82,110.85
						Original	Cost Savings	\$659,661.00
							Cost Savings	\$577,550.15

In addition, page 311 of the AASHTO Green Book indicates that "The extra cost of providing 12-ft lane width, over the cost of providing a 10-ft lane width is offset to some extent by a reduction in cost of shoulder maintenance and a reduction of surface maintenance due to lessened wheel concentrations at the pavement edges." So the expected cost savings is likely lower than predicted. Although, AASHTO did not give any direction as to quantifying the reduced savings, however, AASHTO make reference to additional maintenance, both to the travel lanes and shoulders, the following projection below are based on it.

Total Additional Markup Overlay Resurfacing Project Inside Total (10%)Additional Cost Shoulder Cost During Length Shoulder Cost Area Lifecycle Width /SF (Rural) \$242,742.24 | \$24,274.22 | \$267,016.46 \$0.78 155604 38901 2

Over a lifecycle of 20 years for the project, a low end seven year repaving schedule would not require any more resurfacings than a high end ten year repaving schedule. However, due to the narrow inside lane, the inside shoulder would need to be repaved due to wear, a cost that is usually not included in a normal overlay repaving project. The additional two foot width of overlay, on both sides of the road, for the entire rural length of the project will cost \$267,016.46 (without inflation) between the anticipated two resurfacing cycles, further reducing the projected cost savings to \$310,533.69. While Recommendation T-9 would still provide a cost savings to the project, though less than half of the original savings, the decrease in lane width from 12-ft to 11-ft has to be weighed in value. A 12-ft lane has a greater value than the \$310,533.69 difference in cost. Reference is made in the VE study that the interstates in downtown Atlanta have 11 foot lanes and operates without difficulty. However, through truck traffic is prohibited inside I-285 in Atlanta, severely limiting the amount of trucks on the road. SR 107 is projected to have 30% truck traffic, significantly higher than the percentage in downtown Atlanta.

- 10. Value Engineering Alternative No. T-10 Eliminate sidewalk from the south side of the urban section between Sta 490+69 and Sta 620+46 (Cost Savings of \$265,028) Response: Yes, the recommendation will be implemented.
- 11. Value Engineering Alternative No. D-1 Use High Density Polyethylene pipe in lieu of reinforced concrete pipe for longitudinal drainage sections only. (Cost Savings of \$161,116)

 Response: No, the recommendation will not be implemented.
 - The plans for this project do not specify concrete pipe, but instead direct the contractor to the Pipe Culvert Materials Alternates Chart (Pipe Chart) that was approved as part of the soil survey on June 25, 2009. The contractor is incentivized to use the least expensive of the available options in order to have a better chance to have the winning bid.
- Value Engineering Alternative No. G-1 Shorten the left –turn lanes to the minimum allowable deceleration length throughout the project. (Cost Savings of \$459,878)
 Response: Yes, the recommendation will be implemented.
- 13. Value Engineering Alternative No. G-2 Use Type A median openings in lieu of Type B. (Cost Savings of \$759,220)

Response: No, the recommendation will not be implemented.

- The following reasons are stated by Scott Zehngraff of the Office of Traffic Operations "Based on the traffic volumes & typical crash types along this corridor, our office cannot recommend the removal of the type B median openings on this corridor. Type B median openings perform better for both safety and operational reasons especially at high speeds. This is mainly due to the offset nature of the left turn lane, creating better operational sight distance. Additionally, we have programmed dozens of safety projects throughout the state to convert existing Type A median openings to Type B median openings. It would not be cost efficient/effective to install Type B medians in the future at a higher cost than as part of these projects."
- 14. Value Engineering Alternative No. G-17 Reduce the speed limit to 55 at Van Buren/Webster Road and shorten the curve radius. (Cost Savings of \$191,880)

Response: Yes, the recommendation will be implemented with Modifications.

- Reduction of the speed design is not required in order to shorten the curve radii. The current plans show a radii of 3274' and the minimum for a 65mph design speed is 1485'.
- A historic resource (Graham Family Farm) is located on the north side of SR 107 in the vicinity of this
 proposal and has a boundary defined as the existing edge of pavement on the north side of SR 107. The
 curve radii can be reduced to a minimum of 2600' and still avoid impacts to this property.

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Proposed Alternative (2600' radius curve)
Full Depth Pavement = 4020(2)(26) + 650(2)(26) = 242,840 SF * $5.08 = $1,233,627
Shoulder Pavement area = 2(6.5)[4020+2(650)] = 69160 SF * $3.30 = $228,228
Sub Total = $1,461,855
Markup (10%) = $146,186

Right of Way = [4020(240) + 2(650)(240-80)]/43560 = 26.9 AC * 5.000 = $134,500
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Right of Way = [4020(240) + 2(650)(240-80)]/43560 = 26.9 AC * 5,000 = \$134,500Right of Way Markup (155%) = \$208,475

Total = \$1,951,016

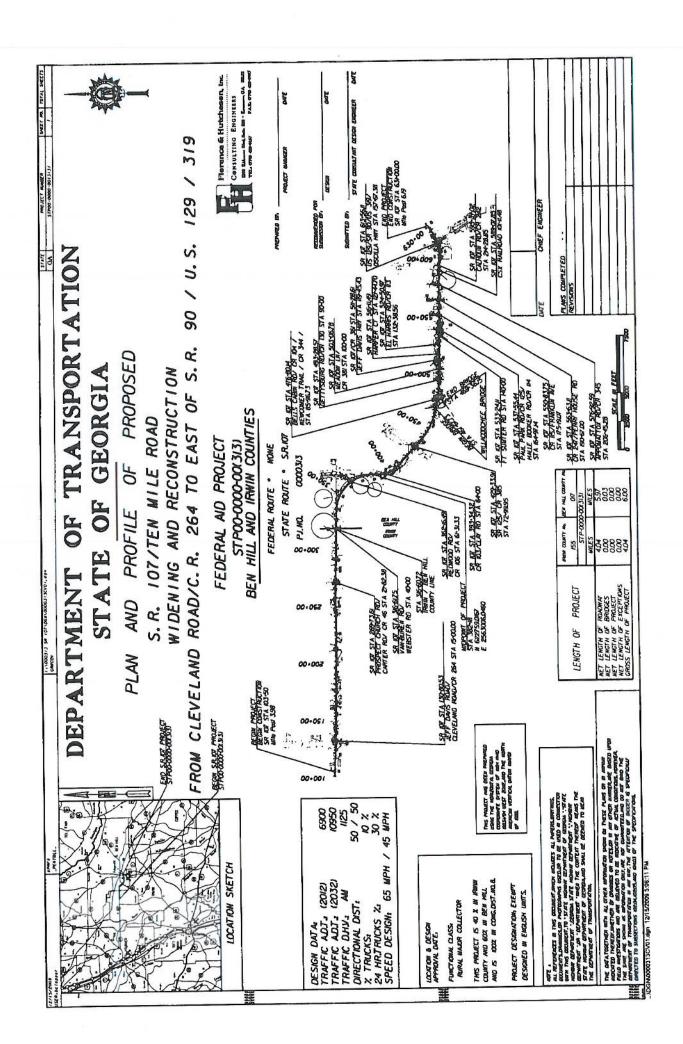
Original Cost = \$2,075,182

Proposed Alternative Savings = \$124,166

BKH:MAH:pbe

Attachment: Project Cover Sheet

cc: Ben Buchan, Director of Engineering



PRECONSTRUCTION STATUS REPORT FOR PI:0000311,0000313,0000314

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DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: STP00-0000-00(314) Turner and Irwin Counties

Widening of SR 107 from CR 250 to CR 264

PI No. 0000314

OFFICE: Program Delivery

DATE: January 07, 2010

FROM: Bobby K. Hilliard, P.E., State Program Delivery Engineer 3.4.

TO: Ronald E. Wishon, State Project Review Engineer

ATTN: Lisa Meyers

Subject: Value Engineering Study Responses

Reference is made to the recommendations that were contained in the Value Engineering Report dated August 21, 2009 for the above referenced project. Our responses and recommendations are as follows.

Value Engineering Recommendation No. T-2

Use intermittent passing lanes in lieu of a four-lane rural divided section from CR 250 to CR 264. (Cost Savings of \$36,346,926)

Response: No, the recommendation will not be implemented. The intermittent passing lanes proposed by the VE Team do not meet the project's Need and Purpose. Specifically, the recommendation would not meet the project's goal of improving the corridor for the purpose of enhancing goods movement and promoting area economic development. To assist in the accomplishment of this goal, the Need and Purpose for the project included providing four-lanes of capacity and increasing the posted speed to 65 mph in the non-urban areas. Retaining the proposed four-lane divided typical section would meet the project's need. Moreover, the Chief Engineer's email communication with the Project Manager concurred with the pursued of the four-lane design.

Value Engineering Recommendation No. T-3

Use a 32-ft-wide rural grassed median in lieu of a 44-ft wide rural grassed median from CR 250 to CR 264. (Cost Savings of \$628,569)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. T-6

Use 4-ft wide paved rural shoulders in lieu of a 6 ft 6-in-wide paved rural shoulders from CR 250 to CR 264. (Cost Savings of \$681,424)

Value Engineering Recommendation No. T-9

Use 11-ft-wide inside lanes in lieu of 12-ft-wide inside lanes from CR 250 to CR 264. (Cost Savings of \$737,105)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. B-2

Use a Type A median crossover and shorten the westbound turn lane to Rebecca Waterloo Highway so it does not affect the bridge over Deep Creek. (Cost Savings of \$417,850)

Response: Yes, the recommendation will be partially implemented. The final length and location of the bridge has not been determined, as a result, the recommendation cannot be fully implemented. Based on the current bridge configuration, the Subject Matter Experts concurs with this recommendation and will revise the design of the median crossover to a Type A and shorten the westbound turn lane as described. However, should the bridge need to be lengthened or shifted closer to the intersection after the final hydrological and hydraulics study is completed, the turn lane recommendation will need to be reevaluated.

Value Engineering Recommendation No. G-1

Shorten the left-turn lanes to the minimum allowable deceleration length. (Cost Savings of \$214,315)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. G-2

Use Type A median openings in lieu of Type B throughout the project. (Cost Savings of \$1,061,460)

Response: No, the recommendation will not be implemented. The following reasons are stated by Scott Zehngraff of the Office of Traffic Operations "Based on the traffic volumes & typical crash types along this corridor, our office cannot recommend the removal of the type B median openings on this corridor. Type B median openings perform better for both safety and operational reasons – especially at high speeds. This is mainly due to the offset nature of the left turn lane, creating better operational sight distance. Additionally, we have programmed dozens of safety projects throughout the state to convert existing Type A median openings to Type B median openings. It would not be cost efficient/effective to install Type B medians in the future at a higher cost than as part of these projects."

Value Engineering Recommendation No. G-10

Maintain the existing alignment at Hawkins Road. (Cost Savings of \$72,164)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. G-11

Maintain Eleanor Circle at the existing alignment at Sta. 313+38. (Cost Savings of \$63,174)

Value Engineering Recommendation No. G-12

Maintain the existing alignment at the Big Creek/Truman Road Intersection. (Cost Savings of \$309,762)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. G-13

Maintain the existing alignment at Eisenhower Road/CR 115. (Cost Savings of \$70,778)

Response: Yes, the recommendation will be implemented.

Value Engineering Recommendation No. G-14

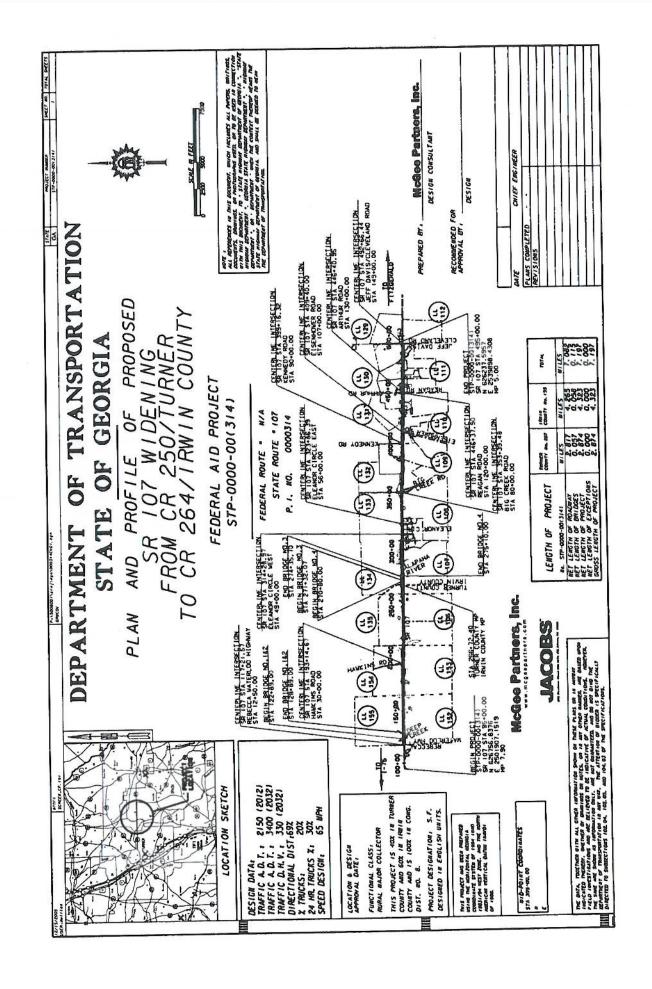
Eliminate the median openings at Sta. 214+80, Sta. 258+40, and Sta. 288+00 and replace with openings at Sta. 233+53 and Sta. 273+91. (Cost Savings of \$208,687)

Response: Yes, the recommendation will be implemented with modifications. The Subject Matter Experts agrees with the VE Team's objective of reducing the total median openings between Hawkins Road/CR 62 and Eleanor Circle West/CR 282 from three to two, and the elimination of the median openings at Sta. 214+80, Sta. 258+40, and 288+00. However, since the VE recommendation of providing median openings at Sta. 273+91 falls on the bridge over the Alapaha River, the Subject Matter Experts recommend that the median openings be located at Sta. 239+00 instead of 233+53, and Sta. 284+00 instead of 273+91. The median opening at Sta. 284+00 is located as far west as possible without pushing the turn lane tapers onto the bridge and the median opening at Sta. 239+00 is equidistant between Hawkins Road/CR 62 and Sta. 284+00. No cost savings revision is needed.

BKH:MAH:pbe

Attachment: Project Cover Sheet

cc: Ben Buchan, Director of Engineering



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PRECONSTRUCTION STATUS REPORT FOR PI:0000311,0000313,0000314

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